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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/458,642	12/09/1999	RICHARD S. SCHWERTFEGER	AUS990817US1	9110

7590 09/11/2002

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EXAMINER

WEN, SHAOJUN

ART UNIT

PAPER NUMBER

2157

DATE MAILED: 09/11/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/458,642

Applicant(s)

SCHWERDTFEGER ET AL.

Examiner

Shaojun Wen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

### DETAILED ACTION

1. This is a first office action in response to application filed, with the above serial number, on December 9, 1999 in which claims 1-30 are presented for examination.

Claims 1-30 are therefore pending in the application.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Jamtgaard et al (hereinafter "Jamtgaard", USPN 6,430,624).

As per claim 1, Jamtgaard teaches a system for delivering an electronic document, comprising: a transcoder proxy (i.e. translation server) coupled to receive the electronic document in a first digital format, wherein the electronic document includes an element, and wherein a JAVASCRIPT event is associated with the element, and wherein the element includes JAVASCRIPT code executed in response to the JAVASCRIPT event (col 5, line 30-45), and wherein the transcoder proxy is configured to: assign a unique identifier to the element (col 6, line 41-44);

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form a model of a logical structure of the electronic document (col 5, line 60-66);  
use the model to produce an original script that includes: (i) at least a portion of the electronic document expressed in a second digital format, and (ii) the element and the identifier assigned to the element (col 7, line 48-51); and  
a client machine (i.e. appliances and devices) coupled to receive the original script (i.e. WML) (col 4, line 10-17).

As per claim 2, Jamtgaard teaches the system wherein the client machine is configured to:  
use the original script to present the portion of the electronic document (col 8, line 42-46);  
associate the JAVASCRIPT event with the element (col 8, line 42-46);  
generate the JAVASCRIPT event in response to user input (col 10, line 7-11); and  
provide JAVASCRIPT event information and the identifier assigned to the element associated with the JAVASCRIPT event to the transcoder proxy (col 8, line 26-32).

As per claim 3 and 24, Jamtgaard teaches the system wherein the model also defines methods for accessing and manipulating the document (col 5, line 64-66).

As per claim 4 and 25, Jamtgaard teaches the system wherein the model is a document object model (DOM) (col 5, line 64-66).

As per claim 5, 12 and 26, Jamtgaard teaches the system wherein the first digital format is a text-based markup language (col 4, 8-17).

As per claim 6 and 13, Jamtgaard teaches the system wherein the text-based markup language is hypertext markup language (HTML) or extensible markup language (XML) (col 4, line 8-17).

As per claim 7, Jamtgaard teaches the system wherein elements of the electronic document are associated with corresponding identifiers within the model, and wherein in response to the JAVASCRIPT event and the identifier provided by the client machine, the transcoder proxy is configured to:

access the element within the model using the identifier (col 6, line 37-44);

execute the JAVASCRIPT code, thereby producing a result (col 10, line 7-11);

use the model and the result to produce a modification script (i.e. WML), wherein the modification script differs from the original script (col 4, line 58-67); and

provide the modification script to the client machine (col 4, line 58-67).

As per claim 8, Jamtgaard teaches the system wherein the client machine is coupled to receive the modification script and configured to use the modification script to modify the presented portion of the electronic document (col 4, line 58-67).

As per claim 9, Jamtgaard teaches a transcoder proxy, comprising:

a synchronous document object model (DOM) generator (i.e. translation server) adapted to receive an electronic document in a first digital format (i.e. HTML), wherein the electronic document includes an element, and wherein a JAVASCRIPT event is associated with the

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element, and wherein the element includes JAVASCRIPT code executed in response to the JAVASCRIPT event, and wherein the synchronous DOM generator comprises an identifier (ID) generator configured to assign a unique identifier to the element (col 5, line 35-45), and wherein the synchronous DOM generator is configured to:

form a pre-transcoded DOM representing a logical structure of the electronic document, wherein the element is associated with the corresponding identifier within the pre-transcoded DOM (col 5, line 64-66);

provide a first portion of the electronic document in the first digital format (i.e. HTML data) (col 4, line 10-17);

a transcoder coupled to receive the portion of the electronic document in the first digital format and configured to:

translate the first portion of the electronic document from the first digital format (i.e. HTML) to an original script in a second digital format (i.e. WML), wherein the original script includes the element and the identifier assigned to the element (col 4, line 58-66);

provide the original script (i.e. WML) (col 4, line 66-67); and

a JAVASCRIPT engine coupled to the synchronous DOM generator and adapted to receive input JAVASCRIPT event information and an input identifier (col 5, line 40-45), wherein the JAVASCRIPT engine is configured to:

access an element within the pre-transcoded DOM using the identifier (col 9, line 56-63);

execute JAVASCRIPT code of the element, thereby producing a result (col 10, line 7-11);

and provide the result to the synchronous DOM generator (col 6, line 11-13).

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As per claim 10, Jamtgaard teaches the transcoder proxy wherein the synchronous DOM generator is further configured to:

use the pre-transcoded DOM and the result to produce a second portion of the electronic document (col 6, line 11-12); and

provide the second portion of the electronic document (col 6, line 11-12).

As per claim 11, Jamtgaard teaches the transcoder proxy wherein the transcoder is further configured to:

receive the second portion of the electronic document (col 7, line 35-44).

translate the second portion of the electronic document from the first digital format to a modification script in the second digital format (col 7, line 48-51); and

provide the modification script (col 8, line 4-6).

As per claim 14, Jamtgaard teaches a client machine, comprising:

an output device (i.e. target device) (col 8, line 32-34); and

a user agent coupled to the output device and adapted for coupling to a transcoder proxy, wherein the user agent is configured to:

receive an original script from the transcoder proxy, wherein the original script includes an element and an identifier assigned to the element (col 10, line 13-17); and

form a transcoded DOM in response to the original script, wherein the transcoded DOM (i.e. relational markup language) is a representation of the portion of the electronic document (col 10, line 26-28).

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As per claim 15, Jamtgaard teaches the client machine wherein the user agent is further configured to:

use the transcoded DOM to produce output commands (col 9, line 56-60);  
provide the output commands to the output device (col 11, line 1-3);  
associate the JAVASCRIPT event with the element (col 10, line 7-11);  
generate the JAVASCRIPT event in response to user input (col 10, line 30-33);  
provide JAVASCRIPT event information and the identifier assigned to the element associated with the JAVASCRIPT event to the transcoder proxy (col 8, line 26-32);  
receive a modification script from the transcoder proxy (col 8, line 47-52);  
modify the transcoded DOM in response to the modification script (col 8, line 47-52).

As of claim 16, Jamtgaard teaches the client machine wherein the output device is a display device or a text-to-speech converter (col 14, line 4-7).

As per claim 17, Jamtgaard teaches a system for delivering an electronic document, comprising:  
a transcoder proxy, including:

a synchronous document object model (DOM) generator coupled to receive the electronic document in a first digital format, wherein the electronic document includes an element, and wherein a JAVASCRIPT event is associated with the element, and wherein the element includes JAVASCRIPT code executed in response to the JAVASCRIPT event, and wherein the synchronous DOM generator comprises an identifier (ID) generator configured to assign a



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unique identifier to each element (col 5, line 35-45), and wherein the synchronous DOM generator is configured to: form a pre-transcoded DOM representing a logical structure of the electronic document, wherein the element is associated with the corresponding identifier within the pre-transcoded DOM (col 5, line 64); and

provide a portion of the electronic document in the first digital format (col 4, line 10-17);

a transcoder (i.e. translation server) coupled to receive the portion of the electronic document in the first digital format and configured to: translate the portion of the electronic document from the first digital format to an original script in a second digital format, wherein the original script includes the element and the identifier assigned to the element (col 10, line 13-17); and

provide the original script (i.e. RML) (col 7, line 48-51);

a JAVASCRIPT engine coupled to the synchronous DOM generator and to receive an input JAVASCRIPT event and an input identifier (col 8, line 42-46);

wherein the user interface generator is configured to:

access an element within the pre-transcoded DOM using the input identifier (col 8, line 37-42);

execute JAVASCRIPT code of the element, thereby producing a result (col 8, line 30-32); and

provide the result to the synchronous DOM generator (col 6, line 11-13); and

a client machine coupled to receive the original script, wherein the client machine comprises:

an output device (col 14, line 4-7);

a user agent coupled to the output device, the transcoder, and the user interface generator,

wherein the user agent is configured to: form a transcoded DOM in response to the original script from the transcoder, wherein the transcoded DOM is a representation of the portion of the electronic document (col 9, line 51-56);

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use the transcoded DOM to produce output commands (col 10, line 13-17);  
provide the output commands to the output device (col 4, line 10-17);  
associate the JAVASCRIPT event with the element (col 10, line 7-11);  
generate the JAVASCRIPT event in response to user input (col 8, line 42-46); and  
provide JAVASCRIPT event information and the identifier assigned to the element associated with the JAVASCRIPT event to the JAVASCRIPT engine (col 8, line 42-46).

As of claim 18, Jamtgaard teaches the system wherein the synchronous DOM generator is further configured to: use the pre-transcoded DOM and the result, to produce a second portion of the electronic document; and provide the second portion of the electronic document (col 7, line 48-51).

As per claim 19, Jamtgaard teaches the system wherein the transcoder is further configured to: receive the second portion of the electronic document (col 10, line 48-52); translate the second portion of the electronic document from the first digital format to a modification script in the second digital format (col 10, line 48-52); and provide the modification script (col 10, line 48-52).

As per claim 20, Jamtgaard teaches the system, wherein the client machine is further configured to: receive the modification script (col 10, line 13-17); and modify the transcoded DOM in response to the modification script (col 10, line 26-28).

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As per claim 21, Jamtgaard teaches the system wherein the first digital format is a text-based markup language (col 4, line 8-17).

As per claim 22, Jamtgaard teaches the system, wherein the text-based markup language is hypertext markup language (HTML) or extensible markup language (XML) (col 4, line 8-17).

As per claim 23, Jamtgaard teaches a method for transcoding an electronic document having at least one element, comprising: receiving the electronic document in a first digital format, wherein the document includes an element, and wherein a JAVASCRIPT event is associated with the element, and wherein the element includes JAVASCRIPT code executed in response to the JAVASCRIPT event (col 10, 30-33);  
assigning a unique identifier to the element (col 6, line 41-44);  
forming a model of a logical structure of the electronic document, wherein the model includes the element and the identifier assigned to the element (col 5, line 60-66);  
using the model to produce a script, wherein the script includes at least a portion of the document expressed in a second digital format, and wherein the script includes the element and the identifier assigned to the element; and providing the script (col 7, line 48-51).

As per claim 27, Jamtgaard teaches the method wherein the second digital format is a scripting language (i.e. RML) (col 4, line 26-31).

As per claim 28, Jamtgaard teaches a method for presenting an electronic document, comprising:

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receiving the electronic document in a first digital format, wherein the document includes an element, and wherein a JAVASCRIPT event is associated with the element, and wherein the element includes JAVASCRIPT code executed in response to the JAVASCRIPT event (col 5, line 30-45);

assigning a unique identifier to the element (col 6, line 41-44);

forming a model of a logical structure of the electronic document, wherein the model includes the element and the identifier assigned to the element (col 5, line 60-66);

using the model to produce an original script, wherein the original script includes at least a portion of the electronic document expressed in a second digital format, and wherein the original script includes the element and the identifier assigned to the element (col 7, line 48-51);

providing the original script (col 4, line 10-17);

receiving input JAVASCRIPT event information and an input identifier assigned to an element associated with the JAVASCRIPT event (col 10, line 7-11);

accessing an element within the model using the input identifier (col 8, line 37-42);

executing JAVASCRIPT code of the element, thereby producing a result (col 8, line 30-32);

use the model and the result to produce a modification script, wherein the modification script differs from the original script (col 8, line 42-46); and

providing the modification script (col 8, line 42-46).

As per claim 29, Jamtgaard teaches a method for presenting an electronic document, comprising: receiving an original script, wherein the original script includes at least a portion of the electronic document expressed in a digital format, and wherein the original script includes an element of the

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document, a JAVASCRIPT event associated with the element, and an identifier assigned to the element (col 6, line 41-44);

using the original script to present the portion of the electronic document (col 5, line 60-66);

associating the JAVASCRIPT event with the element (col 10, line 7-11);

generating the JAVASCRIPT event in response to user input (col 10, line 30-33);

providing JAVASCRIPT event information and the identifier assigned to the element associated with the JAVASCRIPT event (col 8, line 26-32);

receiving a modification script (col 8, line 47-52); and

using the modification script to modify the presented portion of the electronic document (col 8, line 47-52).

As per claim 30, Jamtgaard teaches a method for presenting an electronic document, comprising:

receiving the electronic document in a first digital format (i.e. HTML), wherein the document includes an element, and wherein a JAVASCRIPT event is associated with the element, and wherein the element includes JAVASCRIPT code executed in response to the JAVASCRIPT event (col 5, line 30-45);

assigning a unique identifier to the element (col 6, line 41-44);

forming a model of a logical structure of the electronic document, wherein the model includes the element and the identifier assigned to the element (col 5, line 60-66);

using the model to produce an original script, wherein the original script includes at least a portion of the electronic document expressed in a second digital format, and wherein the original script includes the element and the identifier assigned to the element (col 7, line 48-51);

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using the original script to present the portion of the document (col 5, line 60-66);  
associating the JAVASCRIPT event with the element (col 10, line 7-11);  
generating the JAVASCRIPT event in response to user input (col 10, line 30-33);  
accessing the element within the model using the identifier (col 6, line 40-44);  
executing the JAVASCRIPT code of the element, thereby producing a result (col 10, line 7-11);  
using the model and the result to produce modification script (col 10, line 48-52); and  
using the modification script to modify the presented portion of the document (col 10, line 48-52).

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Raman and Ueda et al are cited for disclosing pertinent information related to the claimed invention. Applicants are requested to consider the prior art reference for relevant teachings when responding to this office action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaojun Wen whose telephone number is (703)305-4874. The examiner can normally be reached on Monday – Friday (8:30-5:30). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703) 308-7562. The fax number for the organization where this application or proceeding is assigned (703) 305-9731 for regular communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Shaojun Wen

Patent Examiner

Technology Center 2100

August 26, 2002



ARKO ETIENNE  
PRIMARY EXAMINER